

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part



**MING XI, ASHOK SINHA, MORIS KORI, ALFRED W. MAK, JEONG SOO BYUN, LAWRENCE
CHUNG-LAI LEI, AND HUA CHUNG**

My residence, post office address and citizenship are as stated below next to my name. I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

**METHOD AND APPARATUS FOR DEPOSITING REFRACTORY METAL LAYERS EMPLOYING
SEQUENTIAL DEPOSITION TECHNIQUES TO FORM A NUCLEATION LAYER**

SPECIFICATION IDENTIFICATION

The specification of which:

- ☐ is attached hereto
- ☒ was filed on 10/03/2000, under Serial No. 09/678,266 and was amended on _____
(if applicable)
- ☐ was described and claimed in PCT International Application No. _____ filed on
_____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

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<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>	
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Inventor's signature: _____ Date: _____

Residence: Milpitas, California
Post Office Address: 138 Beaumere Way
Milpitas, California 95035
U.S.A.

Country of Citizenship: People's Republic of China

Full name of second inventor: Ashok Sinha

Inventor's signature: Ashok K Sinha Date: 1/9/01

Residence: Palo Alto, California
Post Office Address: 4176 Hubbart Drive
Palo Alto, California 95014
U.S.A.

Country of Citizenship: U.S.A.

Full name of third inventor: Moris Kori

Inventor's signature: _____ Date: _____
Residence: Palo Alto, California
Post Office Address: 55 Hamilton Drive
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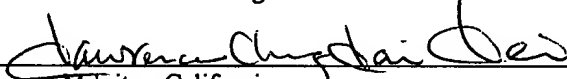
Full name of fourth inventor: Alfred W. Mak

Inventor's signature: _____ Date: _____
Residence: Union City, California
Post Office Address: 32722 Fellows Court
Union City, California 94587
U.S.A. Country of Citizenship: U.S.A.

Full name of fifth inventor: Jeong Soo Byun

Inventor's signature: _____ Date: _____
Residence: Cupertino, California
Post Office Address: 20975 Valley Green Drive #257
Cupertino, California 95014
U.S.A. Country of Citizenship: South Korea

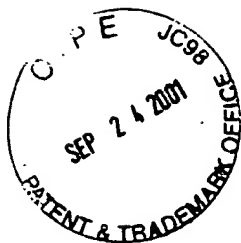
Full name of sixth inventor: Lawrence Chung-Lai Lei

Inventor's signature:  Date: 1/9/01
Residence: Milpitas, California
Post Office Address: 1594 Country Club Drive
Milpitas, California 95035
U.S.A. Country of Citizenship: U.S.A.

Full name of seventh inventor: Hua Chung

Inventor's signature: _____ Date: _____
Residence: San Jose, California
Post Office Address: 4645 Piper Drive
San Jose, California 95129
U.S.A. Country of Citizenship: Republic of China

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Atty. Dkt. No.4714 P1/AMI-00-11

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Inventor's signature:  Date: 11/9/2001

Residence: Milpitas, California
Post Office Address: 138 Beaumere Way
Milpitas, California 95035
U.S.A.

Country of Citizenship: People's Republic of China

Full name of second inventor: Ashok Sinha

Inventor's signature: _____ Date: _____

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Post Office Address: 4176 Hubbart Drive
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Full name of fourth inventor: Alfred W. Mak

Inventor's signature: _____ Date: _____
Residence: Union City, California
Post Office Address: 32722 Fellows Court
Union City, California 94587
U.S.A. Country of Citizenship: U.S.A.

Full name of fifth inventor: Xinliang Lu

Inventor's signature: _____ Date: _____
Residence: Sunnyvale, California
Post Office Address: 685 Garland Avenue #54
Sunnyvale, California 94086
U.S.A. Country of Citizenship: People's Republic of China

Full name of sixth inventor: Ken Kaung Lai

Inventor's signature: _____ Date: _____
Residence: Milpitas, California
Post Office Address: 1354 Terra Alta Drive
Milpitas, California 95035
U.S.A. Country of Citizenship: Republic of China (Taiwan)

Full name of seventh inventor: Karl A. Littau

Inventor's signature: _____ Date: _____
Residence: Palo Alto, California
Post Office Address: 3278 Bryant Street
Palo Alto, California 94303
U.S.A. Country of Citizenship: U.S.A.

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Post Office Address: 32722 Fellows Court

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U.S.A.

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Full name of fifth inventor: Jeong Soo Byun

Inventor's signature: _____ Date: _____

Residence: Cupertino, California

Post Office Address: 20975 Valley Green Drive #257

Cupertino, California 95014

U.S.A.

Country of Citizenship: South Korea

Full name of sixth inventor: Lawrence Chung-Lai Lei

Inventor's signature: _____ Date: _____

Residence: Milpitas, California

Post Office Address: 1594 Country Club Drive

Milpitas, California 95035

U.S.A.

Country of Citizenship: U.S.A.

Full name of seventh inventor: Hua Chung

Inventor's signature:  _____ Date: 1/8/01

Residence: San Jose, California

Post Office Address: 4645 Piper Drive

San Jose, California 95129

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_____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, 1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America or of any United States Provisional Application(s) listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

- ☒ No such applications have been filed.
☐ Such applications have been filed as follows:

- A. Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. § 119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>	
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

- ☐ No such applications have been filed
☒ Such applications have been filed, as follows:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>	
		<u>Patented Pending</u>	<u>Abandoned</u>
09/605,593	6/28/2000	Pending	

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part



**MING XI, ASHOK SINHA, MORIS KORI, ALFRED W. MAK, JEONG SOO BYUN, LAWRENCE
CHUNG-LAI LEI, AND HUA CHUNG**

My residence, post office address and citizenship are as stated below next to my name. I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

**METHOD AND APPARATUS FOR DEPOSITING REFRACTORY METAL LAYERS EMPLOYING
SEQUENTIAL DEPOSITION TECHNIQUES TO FORM A NUCLEATION LAYER**

SPECIFICATION IDENTIFICATION

The specification of which:

- ☐ is attached hereto
- ☒ was filed on 10/03/2000, under Serial No. 09/678,266 and was amended on _____
(if applicable)
- ☐ was described and claimed in PCT International Application No. _____ filed on
_____ and as amended under PCT Article 19 on _____.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, 1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America or of any United States Provisional Application(s) listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

- ☒ No such applications have been filed.
☐ Such applications have been filed as follows:

- A. Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. § 119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>	
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:
Application No:
Filing date:

PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

- ☐ No such applications have been filed
☒ Such applications have been filed, as follows:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>	
		<u>Patented Pending</u>	<u>Abandoned</u>
09/605,593	6/28/2000	Pending	

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Michael B. Einschlag	Registration No. 29,301
Joseph Bach	Registration No. 37,771
Raymond Kam-On Kwong	Registration No. 37,165
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Santa Clara, CA 95052

Direct telephone calls to:

Kenneth C. Brooks
Law Office of Kenneth C. Brooks
512 527-0104

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of first inventor: Ming Xi

Inventor's signature: _____ Date: _____

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Post Office Address: 138 Beaumere Way
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Country of Citizenship: People's Republic of China

Full name of second inventor: Ashok Sinha

Inventor's signature: _____ Date: _____

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Post Office Address: 4176 Hubbart Drive
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Country of Citizenship: U.S.A.

Full name of third inventor: Moris Kori

Inventor's signature: _____ Date: _____

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Post Office Address: 55 Hamilton Drive
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U.S.A. Country of Citizenship: U.S.A.

Full name of fourth inventor: Alfred W. Mak

Inventor's signature: _____ Date: _____

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U.S.A. Country of Citizenship: U.S.A.

Full name of fifth inventor: Jeong Soo Byun

Inventor's signature: _____ Date: _____

Residence: Cupertino, California
Post Office Address: 20975 Valley Green Drive #257
Cupertino, California 95014
U.S.A. Country of Citizenship: South Korea

Full name of sixth inventor: Lawrence Chung-Lai Lei

Inventor's signature: _____ Date: _____

Residence: Milpitas, California
Post Office Address: 1594 Country Club Drive
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U.S.A. Country of Citizenship: U.S.A.

Full name of seventh inventor: Hua Chung

Inventor's signature: _____ Date: _____

Residence: San Jose, California
Post Office Address: 4645 Piper Drive
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U.S.A. Country of Citizenship: Republic of China

(Declaration ends with this page)

Full name of third inventor: Moris Kori

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Country of Citizenship: U.S.A.

Full name of fourth inventor: Alfred W. Mak

Inventor's signature: _____ Date: _____

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Country of Citizenship: U.S.A.

Full name of fifth inventor: Jeong Soo Byun

Inventor's signature: _____ Date: _____

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Country of Citizenship: South Korea

Full name of sixth inventor: Lawrence Chung-Lai Lei

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Country of Citizenship: U.S.A.

Full name of seventh inventor: Hua Chung

Inventor's signature: _____ Date: _____

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U.S.A.

Country of Citizenship: Republic of China

(Declaration ends with this page)